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BULLETIN
OF THE
TORREY BOTANICAL CLUB.

Vol. XV.]

New York, October 3, 1888.

[No. 9.]

An Enumeration of the Plants Collected by Dr. H. H. Rusby in South
America. 1885-1886.—III.

PTERIDOPHYTA.

Determined by Elizabeth G. Britton.*

(I.)—EQUISETÆ.

Equisetum Bogotense, H.B.K., Sorata (2509).

(II.)—LYCOPODIACEÆ.

Lycopodium Saururus, Lam., Yungas (455).

L. linifolium, L., Yungas (449).

L. alopecuroides, L., Mapiri (457).

L. aqualupianum, Spring, Yungas (458).

L. cernuum, L., Yungas (447).

L. clavatum, L., Unduavi (448).

L. scariosum, Forst., var. *Fussiei* (Desv.), Baker, Yungas (451).

(III.)—SELAGINELLÆ.

Selaginella macrophylla, Spring, Sorata (456).

S. longicuspis, Baker (?). Possibly *S. substipitata*, Spring, but leaves of the upper plane less than one-half as long as those of the lower. Mapiri (461a). Beyond the recorded range of either.

S. Breynii, Spring, Mapiri (461). Approaching in the auricled bases of the leaves, *S. campylotis*, A. Br.

S. polycephala, Baker, Mapiri and Yungas (462). Young plants like Holton's No. 82, Flora Neo-Granadina Quindiensis.

S. Poeppigiana, Spring, Yungas (452); Unduavi (454).

*In the determination of these plants I have been favored with exceptional advantages, for, in addition to the resources of the Columbia College Herbarium and Library, I have had access to Professor's Eaton's, at New Haven, and those at Kew. To Professor Eaton and Mr. Baker, for their kindly assistance, I hereby tender my hearty thanks.

- S. mnioides*, A. Br., Mapiri (460).
S. Moritziana, Spring, var. *major*, Yungas (462a). One of the numerous varieties, agreeing with No. 1565 of Lindig from Bogota.
S. radiata, Baker, Yungas, La Paz and Sorata (453).
S. hæmatodes, Spring, Mapiri (450).

(IV.)—FILICES.

- Gleichenia pubescens*, H. B. K., Unduavi (438).
Cyathea Schanschin, Mart., near Yungas (121).
Hemitelia grandifolia, Spr., Mapiri (149).
Alsophila pubescens, Baker, Unduavi and Yungas (424).
A. infesta, Kunze, Yungas (122). "This species exudes much gelatinous matter, which is very styptic."—[H. H. R.]
A. pruinata, (Sw.), Kaulf., Yungas (123).
Woodsia Peruviana, Hook., Sorata (337); Ingenio del Oro (338).
 Regarded as a variety of *W. obtusa*, Torr., in the Synopsis Filicum.
Dicksonia cicutaria, Sw., Yungas (127).
Hymenophyllum polyanthos, Sw., Yungas (136), typical; Mapiri (186), is *H. protrusum*, Hook.; Mapiri (187), is *H. brevistipes*, Liebm., forma *minima*, Kunze—both forms of *H. polyanthos*.
H. ciliatum, Sw., Yungas (135); Mapiri, (183).
H. microcarpum, Desv., Yungas (137).
H. sericeum, Sw., Yungas (140).
Trichomanes sinuosum, Rich., Yungas (138); not typical, is *T. incisum*, Kaulf.
T. brachypus, Kunze, Mapiri (185). Not typical; fronds shorter and more deltoid.
T. radicans, Sw., Yungas (139); (*T. Kunzeanum*, Hook.)
T. crispum, L., Mapiri (184).
Davallia inæqualis, Kunze, Yungas (126).
D. Saccoloma, Spr., Mapiri (156).
Cystopteris fragilis (L.), Bernh., Sorata (319). Specimens eighteen inches high.
Lindsaya trapeziformis, Dry., Mapiri (161).
Adiantum tetraphyllum, Willd., Guanai (164).
A. Chilense, Kaulf., Unduavi (444). Named by Prof. Eaton.

Regarded as a form of *A. Æthiopicum*, L., in the Synopsis Filicum.

- A. decorum*, Moore, Gard. Chron., 1869, 582. Near La Paz (166). "Common on walls along roadsides."—H. H. R.
- A. cuneatum*, Langsd. and Fisch., Yungas (165).
- Lonchitis pubescens*, Willd., Yungas (145).
- Hypolepis repens*, Presl., near Yungas (410).
- Cheilanthes Matthewsii*, Kunze, near La Paz (320).
- C. pilosa*, Goldm., Ingenio del Oro (330); Mapiri (331).
- C. myriophylla*, Desv., near La Paz (321); Sorata (322).
- Pellaea geraniæfolia*, Fée, Guanai (113).
- P. ternifolia*, Fée, near La Paz (323).
- P. marginata* (H.B.K.), Baker, Sorata, (328).
- Pteris deflexa*, Link, Yungas (116); Sorata (163).
- P. pedata*, L., Yungas, (112).
- P. aculeata*, Sw., Mapiri (162).
- P. podophylla*, Sw., Unduavi (115).
- Lomaria attenuata*, Willd., near Yungas (314).
- L. Plumieri*, Desv., Yungas (318).
- L. alpina*, Spr., near La Paz (317); Sorata, (316).
- L. procera*, Spr., near Valparaiso (310) (*L. Chilensis*, Kaulf.); near Yungas (311, 312).
- L. Boryana*, Willd., Mapiri (313).
- Blechnum asplenoides*, Sw., Yungas (315). Sterile.
- B. unilaterale*, Willd., Yungas (302, 307).
- B. longifolium*, H.B.K., Guanai (304).
- B. occidentale*, L., La Paz (305); near Yungas (396, 309).
- B. hastatum*, Kaulf., near Valparaiso (303); named by Prof. Philippi.
- Asplenium fragile*, Presl., Sorata (404); Unduavi (405); Ingenio del Oro (406).
- A. Trichomanes*, L. Unduavi (407).
- A. monanthemum*, L. Sorata (400); typically fruited fronds mixed with forms of *A. Menziesii*, Hook.
- A. oligophyllum*, Kaulf., Yungas (383).
- A. lunulatum*, Sw., Yungas (398); Unduavi (399).
- var. *harpeodes*, Mett. Mapiri (402).
- var. *pteropus*, (Kaulf.), Baker, Sorata (401, 403).

- A. auriculatum*, Sw., Yungas (397).
A. rhizophorum, L., Yungas (396), fronds pinnate, Mapiri and Yungas (389), tripinnate (*A. flabellulatum*, Kunze).
A. serra, Langs. & Fisch., Yungas (384).
A. auritum, Sw., (*A. rigidum*, Sw.), Unduavi (390); Yungas (391).
A. falcatum, Lam., Yungas (388). Approaches a form at Kew, labelled by Mr. Baker "an *A. insiticum*, Brack." More lacinate than any other American specimens seen.
A. fragrans, Sw., (*A. fœniculaceum*, H.B.K.), Unduavi (392).
A. repens, Hook., Yungas (409).
A. delicatulum, Presl., near Yungas (393).
A. Filix-fœmina (L.), Bernh., Unduavi (395).
A. grandifolium, Sw., Mapiri (385). Approaching *A. crenulatum*, Baker.
A. crenulatum, Baker, Yungas (387).
A. Klotschii, Mett., Yungas (394).
A. radicans, Sw., Yungas (386).
Didymochlæna lunulata, Desv., Yungas (117).
Aspidium macrophyllum, Sw., Mapiri (413).
A. aculeatum, Sw. The type is not represented in the collection. The form described as *Polypodium platyphyllum*, Hook., in Synopsis Filicum agrees with specimens from Sorata (414); Ingenio del Oro (417); near Yungas (418, 446.) That known as *P. rigidum*, Hook. & Grev. with Sorata (416); Yungas (419), and Unduavi (420). *Phegopteris cochleata*, Mett., is represented from Sorata and Yungas (415).
A. rivulorum, Link, near Valparaiso, Chili (421); named by Prof. Phillippi.
A. patens, Sw., Yungas (423); approaching *Nephrodium macroum*, Baker, in the basal pinnules.
A. conspersoides, Fée, in Fourn. Fil. Mex., p. 95 (?); Mapiri (426). An unusual form marked by coriaceous texture and the lowest pair pinnules much prolonged and appressed to the rachis.
A. conterminum, Willd., Sorata (422); Guanai (430, 436); near Yungas (429, 432); specimens approaching *A. Noveboracense*, Sw., from Yungas (435); Unduavi (431); Mapiri (434).

- (*Nephrodium conterminum*, Desv., var. *A. pilosulum*, Klotsch.)
 Specimens resembling *A. Thelypteris*, Sw., from La Paz (433).
 None of the specimens are indusiate.
- A. falciculatum*, Raddi, Mapiri (437).
- A. VILLOSUM* (Presl.). *Nephrodium villosum*, Presl., Yungas (425).
- A. prætervisum*, Kuhn, Linnæa, xxxvi., (411); Mapiri (437a).
- Nephrolepis exaltata*, Schott., Yungas (411).
- Phegopteris decussata*, (L.), Mett., near Yungas (427); Sorata (428).
- Polypodium serrulatum*, Mett., Unduavi (368); Yungas (369).
- P. moniliforme*, Lag., Mapiri and Unduavi (381).
- P. cultratum*, Willd., near La Paz (370); Yungas (371).
- P. pendulum*, Sw., var. *subsessile*, Baker, near La Paz and Yungas (379); Mapiri (380).
- P. suspensum*, L., Yungas (376). The form *P. mollissimum*, Fée, near La Paz (373); Yungas (374); Mapiri (375).
- P. macrocarpum*, Presl., La Paz (365).
- P. rigescens*, Bory, Mapiri (382).
- P. apiculatum*, Kunze, Yungas (372).
- P. Plumula*, H.B.K., Mapiri (366); near Yungas (367).
- P. pectinatum*, L., Mapiri (356); Unduavi (358).
- P. plebeium*, Schlecht., Sorata (352); Yungas (353); Unduavi (355). Also a large form from Unduavi (364), agreeing with *P. pleopeltidis*, Fée, Fil. Bras., t. 26, f. 1; approaching some large specimens at Kew, collected by P. L. Sodiro, "Flora Andium Quitensium," Nos. 39, 40 and 48, considered by Mr. Baker to be forms of *P. plebeium*.
- P. piloseloides*, L., Unduavi (361).
 var. *ciliatum*, (Willd.), Baker, Mapiri (361a).
- P. glaucophyllum*, Kunze, Yungas (362); Mapiri (363).
- P. plesiosorum*, Kunze, Unduavi (377).
- P. loriceum*, L., Yungas (357, 378); Ingenio del Oro (359); Unduavi (360).
- P. Chacapoyense*, Hook, Yungas (354).
- P. fraxinifolium*, Jacq., Yungas (346).
- P. thysanolepis*, A. Br., Sorata (344).
- P. aureum*, L., var. *areolatum*, Eaton, Yungas (343).
- P. angustifolium*, Sw., Yungas (350); Unduavi (351).
- P. percussum*, Cav., Yungas (347); Unduavi (348); Mapiri (348).

- P. crassifolium*, L., Sorata (345).
Jamesonia imbricata, Hook. & Grev., Sorata and Unduavi (141).
Notholæna ferruginea, Kaulf., Sorata (335); near La Paz (333);
 Guanai (336); Yungas (332).
N. hypoleuca, Kunze, Yungas (334).
N. tenera, Gill., Sorata (326); near La Paz (327).
N. nivea, Desv., near La Paz (324); near Yungas (325).
Gymnogramme grandis, Baker, Yungas (147).
G. angustifrons, Baker, Unduavi (329); a sterile, narrower and
 more elongated form from Yungas (408).
G. flexuosa, Desv., Yungas (128); young fronds sterile from La
 Paz (445); a variety from Ingenio del Oro (160), agrees with
 No. 239, Pearce, Andes of Ecuador in Herb. Kew; another
 from near Yungas (129), approaches in coarseness and slight
 hirsuteness a specimen at Kew collected by R. Pearce in
 Quenca, (also numbered 239), and labelled var. *hirsuta*.
G. trifoliata, Desv., Guanai (146).
G. tartarea, Desv., Unduavi (132); a variety (*G. ornithopteris*,
 Klotz), Yungas (133).
G. calomelanos, Kaulf., Yungas (134); Mapiri (148); unusually
 large and coarse, from Cinchona plantations at Yungas (131);
 a variety (*G. chrysophylla*, Kaulf.), Yungas (130).
Meniscium serratum, Cav., Guanai (412).
Vittaria stipitata, Kunze, Yungas (339, 340).
V. lineata, Sw., (*V. filifolia*, Fée); Mapiri (341).
Acrostichum conforme, Sw., Mapiri (300).
A. flaccidum, Fée, Yungas (298).
A. castaneum, Baker, Journ. Bot., 1877, p. 166, near Yungas (295).
A. Lingua, Raddi, Mapiri (441).
A. latifolium, Sw., Yungas (296).
A. melanopus, Kunze, Yungas (292).
A. viscosum, Sw., Yungas (301).
 var. *minor*, Moore, (*Elaphoglossum tenuiculum*, Moore, Herb.),
 near Yungas (299).
A. Matthewsii, Fée, Unduavi and Yungas (297).
A. lepidotum, Willd., Mapiri (440).
 ACROSTICTUM EATONIANUM, sp. nov. Sect. Elaphoglossum,
A. lepidotum, Willd., proximo. Rhizoma scandentis, densissime

squamosis; frondibus anguste-linearis, coriaceis, apice et basi longe acuminatis, margine glabris, revolutis, subtus densissime squamosis; squamis ovatis-lanceolatis, reticulatis, ciliatis; stipes teretes, squamosi, prope basim articulati.

Climbing on trees; rhizome slender, less than 1 cm. in diameter, covered with dark-brown, glossy, stiff, lanceolate scales; stipes clustered, terete, arising from lateral buds, 2 to 3 cm. long, and also covered with short, dark scales, when old of a bright reddish straw-color, showing a well marked joint less than 1 cm. from the rhizome; fronds coriaceous, 30-40 cm. long, 2 to 5 mm. wide, broadest above the middle and tapering to each end, of a light green color when young, becoming tawny and mottled with black on the upper surface when old, densely covered beneath with ovate-lanceolate, ciliate and reticulate scales, naked above except along the midvein; scales of the lower surface of the midvein mottled with black; margins nearly naked and strongly revolute, even when boiled; veins pinnate, about 1 mm. apart, sometimes bifurcate near the midvein. Yungas (342), sterile specimens only; collected also by R. Pearce, June, 1865, at Quichara, Herb. Kew, marked "epiphytal ferns." Another specimen, collected by Pearce at the same time and place, has fronds nearly twice as long and broad, and the scales are round and more deeply laciniate—perhaps a different species. A remarkable species of the section *Elaphoglossum* not approaching any member of the group that we have seen; its nearest alliance is with *A. lepidotum*, Willd., and probably with var. *vittatum*, Sodiro, Recens. Crypt. Vasc. Quitenses, p. 81. Named in honor of Professor Daniel Cady Eaton, of Yale University, who first declared it to be a new species.

A. cuspidatum, Willd., Unduavi (293); Yungas (294).

A. caudatum, Hook., Mapiri (442).

A. osmundaceum, Hook, Yungas (443).

Aneimia Breuteliana, Presl., Yungas (120).

A. tomentosa, Sw., Yungas (118, 119).

A. Phyllitidis, Sw., Mapiri (155).

Lygodium venustum, Sw., Guanai (144); the form, *L. palmatilobum*, Mart. Flor. Bras., t. 14, No. 6, Guanai (142) and another, *L. hirsutum*, Willd., Yungas (143).